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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/805,125	03/22/2004	Richard H. Hicks	04-061-WSB		
William S. Bern	7590 01/03/2007	EXAMINER			
255 N. Lincoln St.			TOOMER, CEPHIA D		
Dixon, CA 95620			ART UNIT	PAPER NUMBER	
•			1714		
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE		
3 MONTHS		01/03/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

			Application No. Applicant(s)						
Office Action Summary			10/805,125	HICKS ET AL.	•				
			Examiner	Art Unit					
			Cephia D. Toomer	1714					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)	Responsive to communication(s) file	ed on	<i>,</i>						
2a)□	·		action is non-final.						
3)	Since this application is in condition	nce this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
4)🛛	Claim(s) 1-20 is/are pending in the a	application.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.									
6)⊠	6)⊠ Claim(s) <u>1-4,6-9,13,16 and 18-20</u> is/are rejected.								
7)🖂	Claim(s) 5,14 and 15 is/are objected	l to.							
8)	Claim(s) are subject to restrict	ction and/or	election requirement.						
Applicat	ion Papers			·					
9)☐ The specification is objected to by the Examiner.									
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority (ınder 35 U.S.C. § 119			•	•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
	1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No									
3. Copies of the certified copies of the priority documents have been received in this National Stage									
application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
Attachmen									
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date									
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application									
Paper No(s)/Mail Date 6) Uther:									

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DETAILED ACTION

Specification

1. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 7 and 16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 7 and 16 contain improper Markush groups. The proper conjunction is – and --, not "or".

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-4, 6, 7, 9-13, 16, 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grangette (US 4,396,400).

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Grangette teaches a gas oil composition comprising 100-5000 ppm of water, 100-5000 ppm surfactant (amphoteric or anionic) and 100-5000 ppm co-surfactant. The so-surfactant may be lower alcohols (see abstract; col. 2, lines 10-41; col. 3, lines 1-30; col. 3, lines 41-52; col. 4, lines 4-12). Grangette teaches that it is also known to use cationic and nonionic surfactants in fuel compositions (see col. 1, lines 26-65).

Grangette teaches the limitations of the claims other than the proportions as set forth in the claims. However, Grangette teaches that each component may be present in an amount from 100-5000 ppm. It would have been obvious to one of ordinary skill in the art at the time the invention was made to optimize the proportions of the surfactant, water and co-surfactant through routine experimentation for the best results. As to optimization of results, a patent will not be granted based upon the optimization of result effective variables when the optimization is obtained through routine experimentation unless there is a showing of unexpected results which properly rebuts the *prima facie* case of obviousness. See *In re Boesch*, 617 F.2d 272, 276, 205 USPQ 215, 219 (CCPA 1980). See also *In re Woodruff*, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936-37 (Fed. Cir. 1990), and *In re Aller*, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

6. Claims 8 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grangette as applied to claims above, and further in view of Yount (US 4,162143).

Grangette has been discussed above. However, Grangette fails to teach the addition of a solvent. However, Grangette teaches that surfactants are normally blended in solvents such as kerosene (see col. 9, lines 35-45).

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It would have been obvious to one of ordinary skill in the art to blend the surfactants of the present composition because teaches that in emulsified fuels the surfactants are normally blended with kerosene.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cephia D. Toomer whose telephone number is 571-272-1126. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Cephia D. Toomer Primary Examiner Art Unit 1714

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